Test Case 1: Star

Star\_region:

E = 300GPa

v = 0.33

k = 1000

a = 5e-6

Background\_region:

E = 10GPa

v = 0.27

k = 1

a = 1

Skeleton: 40 x 40

Index = 0.992

Only temperature diffusion (Heat Eqn)

Boundary conditions:

LHS: 0 degrees

RHS: 1000 degrees

Tolerance: 1e-13

Iterations: 1000

Initializer: 0.0